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	Application No.	Applicant(s)	
	10/595,006	CRAIG, H. RANDALL	
Notice of Allowability	Examiner	Art Unit	
. `	William C. Doerrler	3744	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to the 12-9-2005 applie	S (OR REMAINS) CLOSED in to b) or other appropriate communi RIGHTS. This application is sub and MPEP 1308.	nis application. If not included cation will be mailed in due course.	ΓHIS nitiative
2. The allowed claim(s) is/are <u>1-53</u> .			
 3. Acknowledgment is made of a claim for foreign priority to a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	ve been received. ve been received in Application	No	ı the
International Bureau (PCT Rule 17.2(a)).		The state of the s	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file a MENT of this application.	reply complying with the requiremen	its
4. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give	mitted. Note the attached EXAM ves reason(s) why the oath or d	IINER'S AMENDMENT or NOTICE Ceclaration is deficient.)F
5. CORRECTED DRAWINGS (as "replacement sheets") mu	ust be submitted.		
(a) including changes required by the Notice of Draftsper		PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner Paper No./Mail Date	r's Amendment / Comment or in	the Office action of	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFR	drawings in the front (not the back) of 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 	OSIT OF BIOLOGICAL MATER FOR THE DEPOSIT OF BIOL	RIAL must be submitted. Note the OGICAL MATERIAL.	
		,	
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 (Nation of lefe	rmal Datant Application	
 Is Notice of References Cited (FTO-692) In Notice of Draftperson's Patent Drawing Review (PTO-948) 		mal Patent Application	
		ail Date	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u> 		mendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's St	atement of Reasons for Allowance	
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Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 12-9-2005, 12-13-2005.

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: Craig (6,381,967) is seen as the closest art. Craig directs droplets to a solid refrigerant to solidify the droplets. Craig does not distribute the droplets in a laminar flow of gas of increasing velocity. Hays (5,682,759) shows distributing droplets in a flow of gas with a nozzle to distribute the droplets and increase the velocity of the flow. However, no reason can be found to use a gas flow of increasing velocity in the freezing device of Craig. Adiga shows cooling by entraining liquid particles in a gas flow, but no freezing ever occurs. Brinegan et al directs a frozen particle in a gas stream, but the particle has already been frozen when it is entrained in the gas stream. Knodel shows a direct freezing method, but again, the drops are not entrained in a gas. Kendall shows a freezing method for glass particles which entrains the droplets in a gas stream, but the gas stream performs the cooling. None of the references found present a reason to entrain droplets in a laminar flow of increasing velocity prior to contact with a refrigerant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Doerrler whose telephone number is (571) 272-4807. The examiner can normally be reached on Monday-Friday 6:30-4:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

William C Doerrler Primary Examiner Art Unit 3744

WCD